

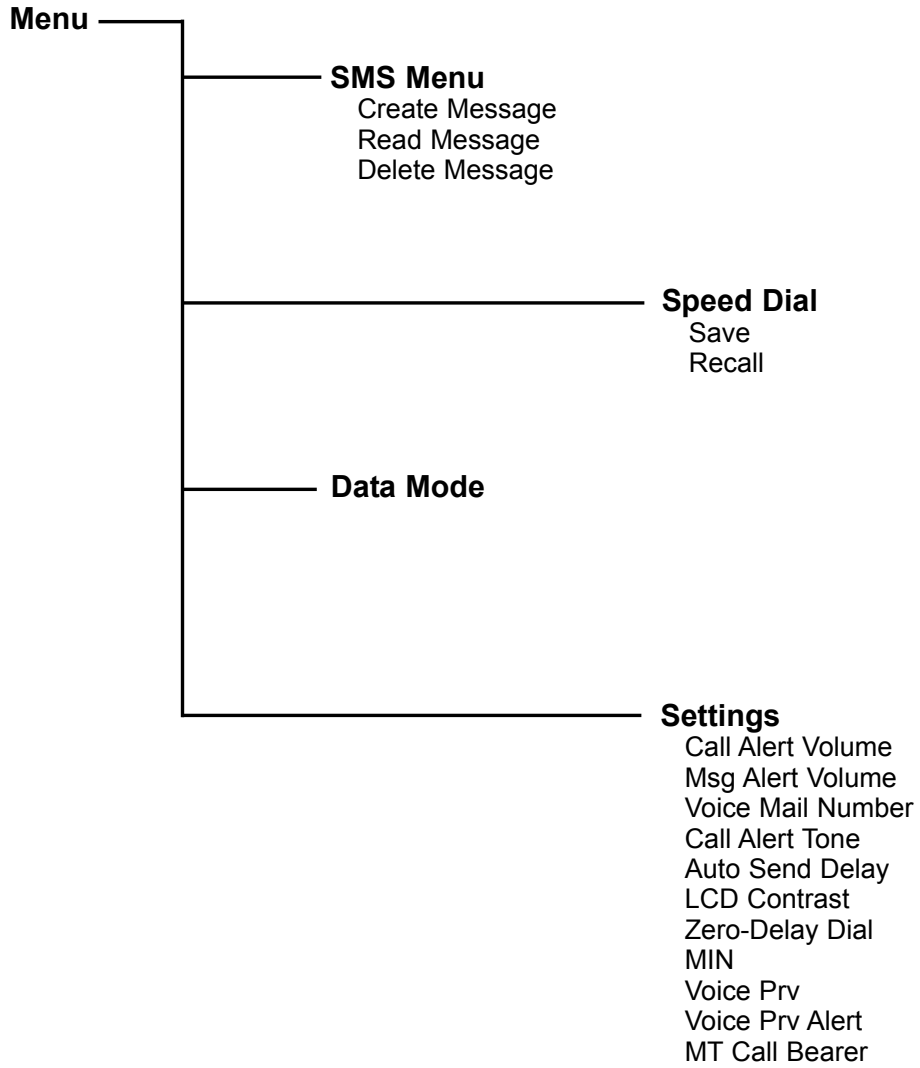


PHONECELL[®] SX4P

CDMA 2000 1X

Fixed Wireless Phone
USER MANUAL

SX4P MENU STRUCTURE



* Requires password

CONTENTS



Phoncell® SX4P 1x Desktop Phone



Spike Antenna



Power Supply



AC Power Cord

Before installing your **Phoncell® SX4P**, carefully remove the contents from the shipping carton and check for evidence of shipping damage. **If damage is found, contact your Authorized Telular Distributor or shipping agent immediately.**

SAFE OPERATION INSTRUCTIONS

IMPORTANT! Before installing or operating this product, read the **SAFETY INFORMATION** section of this manual.

- Install unit indoors.
- Install unit on hard, flat surface for proper ventilation.
- Do not expose unit to rain or moisture.
- Do not place unit on or close to sources of heat

PLEASE SEE THE IMPORTANT NOTICES SECTION OF THIS MANUAL FOR IMPORTANT INFORMATION ON USE, WARRANTY AND INDEMNIFICATION

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SX4P SETUP

Emergency Batteries

Install Batteries

1. Remove the battery access door screw that is located on the bottom of the unit - **see Figure 1.**
2. Press the battery access door tab and remove the battery access door.
3. Install 6 “AAA” alkaline batteries (not supplied).

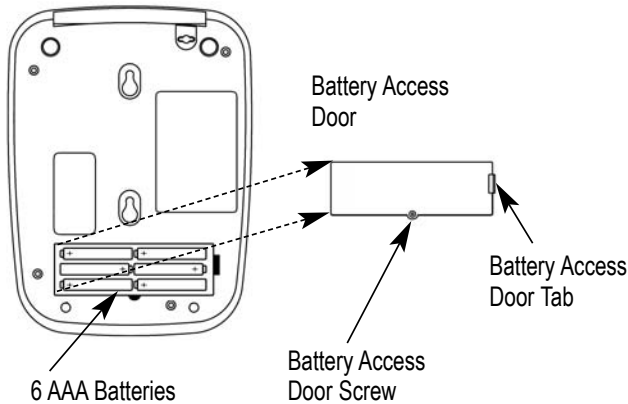


Figure 1 - Battery installation.

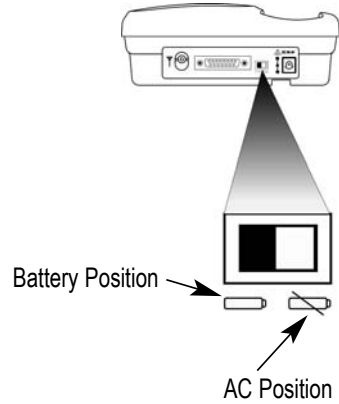


Figure 2 - AC/battery switch.

4. Reattach the battery access door and replace the battery access door screw.

Battery Operation

The SX4P will not switch automatically from AC to battery power when AC power is lost. The AC/Battery switch must be set to the battery position manually - **see Figure 2.** Battery power will provide up to 1 hour of talk time and 48 hours of standby time.

Location and Setup

The SX4P comes with a standard spike antenna (TNC).

1. Attach and finger-tighten the antenna. Do not over-tighten the antenna - **see Figure 3.**
2. Select a location that is above ground and close to windows or exterior walls to get the best signal - **see Figure 4.**

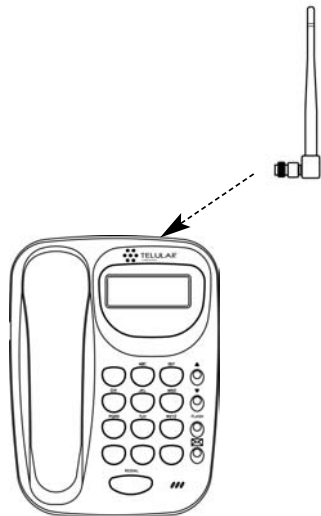


Figure 3 - Attach the antenna.

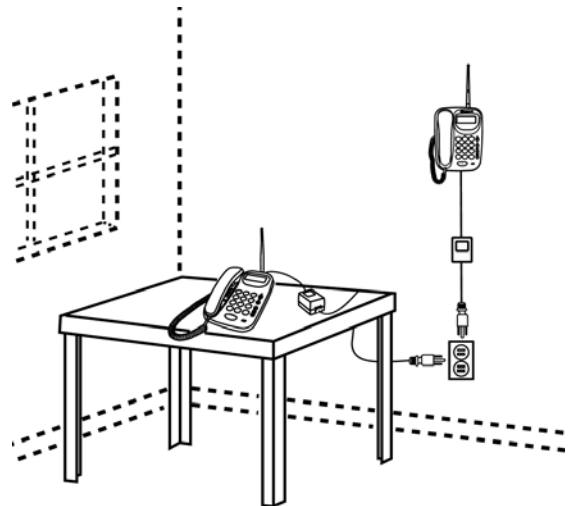


Figure 4 - SX4P location.

Connect the Handset

Before the SX4P can be operated, the handset cable must be connected - *see Figure 5.*

1. Connect one end of the handset cable to the phone jack.
2. Connect the other end of the handset cable to the handset.

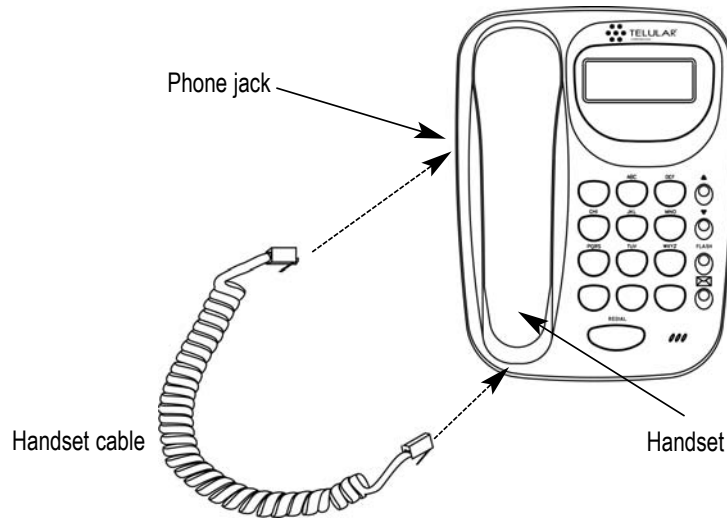


Figure 5 - SX4P handset connection.

Wall-Mounting

Before you attempt to mount the SX4P on a wall, you will need to purchase two screws (the diameter of the heads must be between 5 mm and 9 mm to fit the mounting holes on the SX4P).

1. Remove the mounting clip from the cradle and re-insert it so that the tab points out - *see Figure 6.*
2. Mark two hole locations 83 mm (3 1/4 inches) apart vertically.
3. Drill holes at the marked locations with a drill bit that is the appropriate size for the mounting screws (screws not provided).
4. Secure the mounting screws (not supplied) in the wall. Leave a 3 mm (1/8 inch) gap between the screw heads and the wall.
5. Align the bottom part of the mounting holes on the SX4P with the screw heads in the wall, then slide the SX4P down so that it is securely attached to the mounting screws - *see Figure 8.*

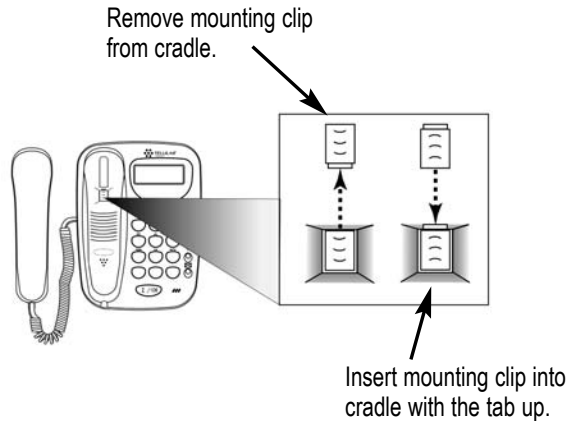


Figure 6 - Handset mounting clip for wall-mount.

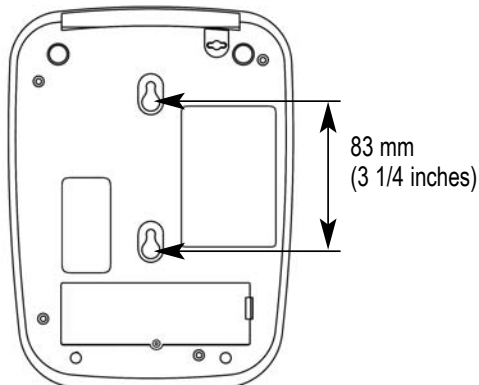


Figure 7 - SX4P mounting holes.

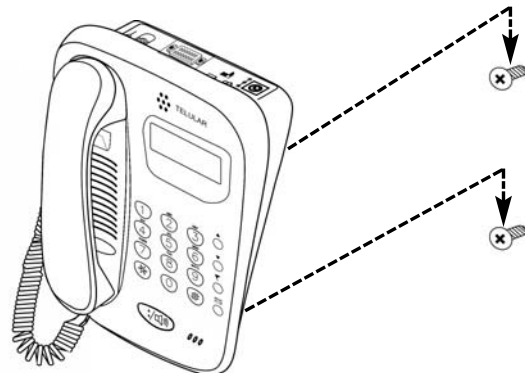


Figure 8 - Wall-mounting the SX4P

Connect the SX4P to AC Power

1. Attach the barrel connector of the power supply to the AC power input on the rear panel of the SX4P.
2. Connect the AC power cord to the power supply.
3. Move the AC/Battery switch to the AC position.
4. Plug the AC power cord into the wall socket. The SX4P will power up automatically.
5. Check the cellular strength and move the unit as needed to get the best signal - see the *Service Indication* section of this manual.

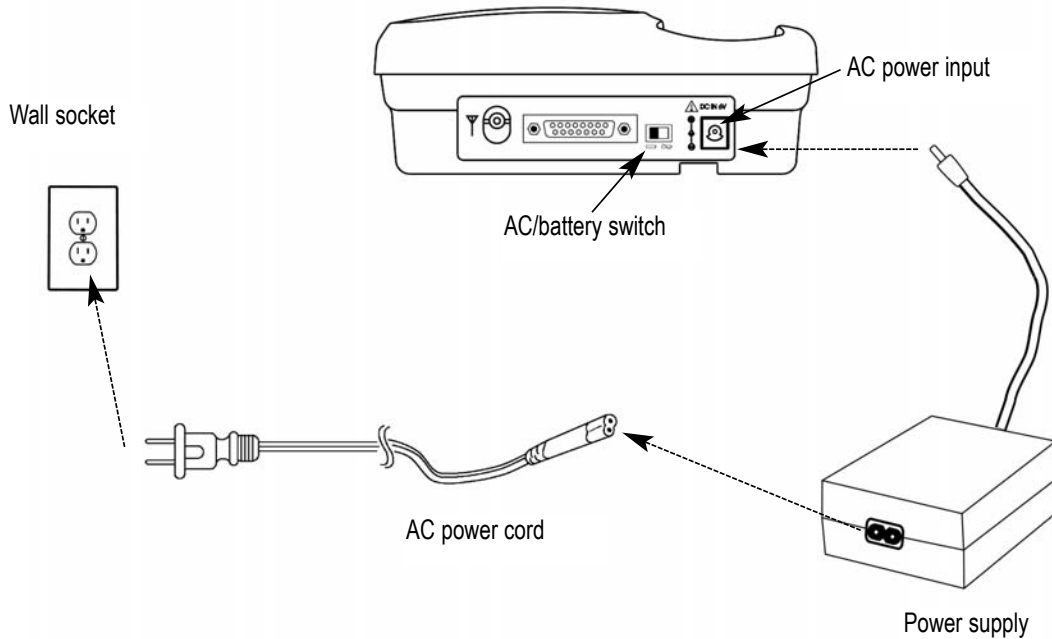
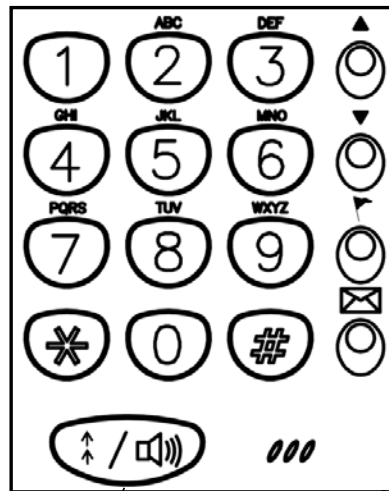


Figure 9 - Connecting the SX4P to AC Power.

SX4P BASICS

Function Keys

The keypad includes all digits 0 through 9 and special characters hash/pound (#) and star/asterisk (*). All data entry and programming activities are performed using the keypad.



Volume Up/Down Keys - Control the handset and external speaker volume while in a call. Also used to scroll through options menu items and to access the call logs.

Flash key - Can be used to speed up the connection after dialing or answer an incoming call that occurs while off-hook (in another phone call or dialing a number). It is also used to access the user menu and to select menu items.

Voicemail Retrieval key - Accesses the voicemail system. It is also used in the user menu as a BACK key (goes back one menu level).

NOTE: Contact your service provider to determine if voicemail service is available and to program the voicemail access number.

Redial/Hands-Free key - Provides redial capability and hands-free dialing.

NOTE: The SX4P is not a speakerphone. Hands-free operation is only used for dialing telephone numbers.

Figure 10 - SX4P Function Keys.

LCD Screen Icons

The SX4P displays icons to indicate signal strength, ringer status, new voicemail, monitor phone status, handset status, and battery operation.

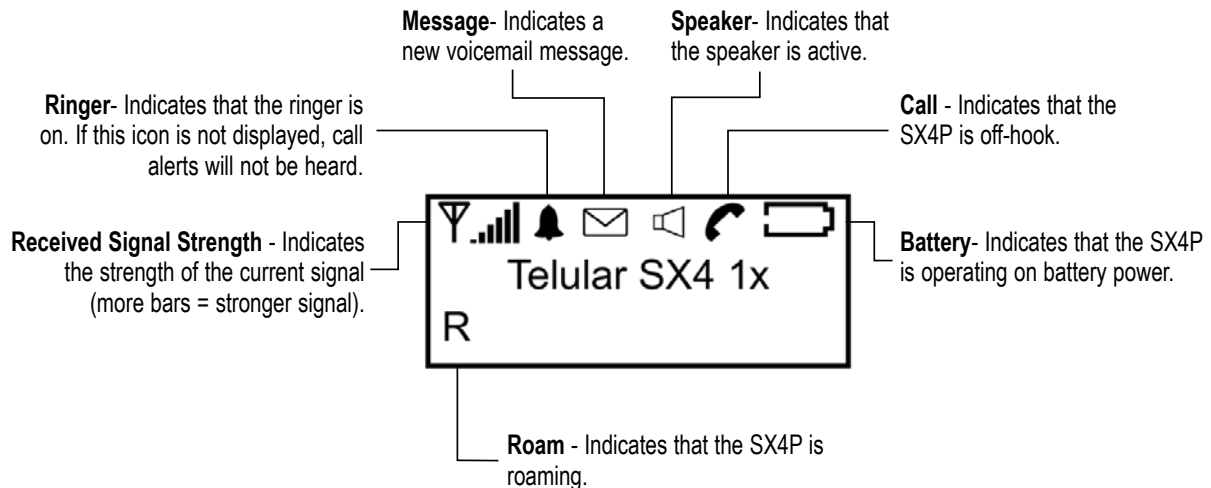
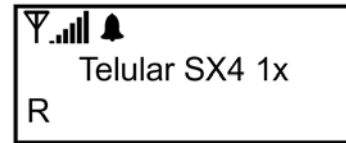


Figure 11 - SX4P LCD Screen Icons.

Service Indication

Full Service

When it is powered on, the SX4P will display "Initializing" while it sets up, then it will display your phone number followed by the hardware and software versions. If service is available, "Telular SX4 1x" will display when the setup is complete. If the unit is roaming, an "R" will also display. Vertical indicator bars next to the antenna icon display the signal strength (6 bars indicates a full signal).



Full Service.

No Service

If no service is available, "No Service" will display when the SX4P setup is complete. The antenna icon will still display, but no indicator bars will display.



No Service.

Making Calls

1. Pick up the handset, or press the Redial/Hands-Free key. The SX4P is now "off-hook."

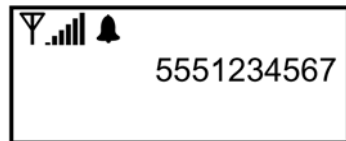
2. When the dial tone sounds, dial the desired phone number. The dialed digits will display.

NOTE: The SX4P does not have speakerphone capabilities. The Redial/Hands-Free key allows for hands-free dialing, but the handset must be used for actual conversation because there is no external microphone on the SX4P.

Receiving Calls

When there is an incoming call, the SX4P will ring and display caller ID information if it has been enabled. When the ringer is off, caller ID information will still display. Contact your service provider to activate caller ID.

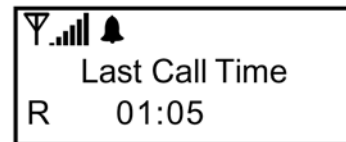
1. Pick up the handset.
2. Begin talking.



Receiving Calls.

Ending Calls

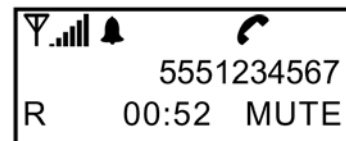
To end a call, place the handset back onto the SX4P cradle. When a call is ended, the length of the call (in minutes and seconds) will display.



Ending Calls.

Muting Calls

While in an active call, press the Voicemail key to mute the microphone. To un-mute the call, press the Voicemail key. As long as a call is muted, the screen will display "Mute" in the lower right corner.



Muting Calls.

FEATURES

Use the Voicemail Key (envelope ICON) to navigate up and down the menu tree. Use the Redial Key to cancel an entry. When finished with parameter changes, press the Voicemail Key to program the changes to the phone. Alternatively, lifting the handset from the cradle and replacing it will also program the changes to the phone. The LCD window will show the word 'PROGRAMMING', when successful. Changes to the SX4P settings are activated upon returning to the idle screen

Call Logs

Received Calls

The SX4P saves the last 10 received calls.

1. From the idle screen, press the **UP** arrow key. Received Calls will display.
2. Use the **DOWN** arrow key to scroll through the last 10 received calls.



Received Calls.

Missed Calls

The SX4P saves the last 10 missed calls.

1. From the idle screen, press the **UP** arrow key. Received Calls will display.
2. Press the **UP** arrow key again. Missed Call 1 will display.
3. Use the **UP** arrow key to scroll through the last 10 missed calls.



Missed Calls.

Dialed Calls

The SX4P saves the last 10 dialed calls.

1. From the idle screen, press the **DOWN** arrow key. Dialed Calls will display.
2. Use the **DOWN** arrow key to scroll through the last 10 dialed calls.

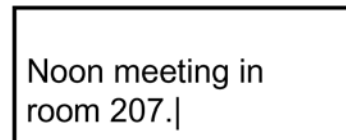


Dialed Calls.

Text Messaging (SMS)

Create Message

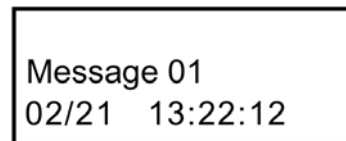
1. Press the **FLASH** key.
2. Select *SMS Menu*, then select *Create Message*.
3. Type the desired message. Use the * key to change to upper case, lower case, or numbers.
4. Press the **FLASH** key.
5. Select *Send Message*.
6. Enter the phone number to which the message will be sent.
7. Press the **FLASH** key.



Create Message.

Read Messages

1. Press the **FLASH** key.
2. Select *SMS Menu*, then select *Read Messages*.
3. Select the desired type of message to view (New, Received, Sent, or Unsent).
4. Scroll down through the messages using the down arrow key. If you have more than one message, continue to scroll down to display more messages. You can also scroll up with the UP arrow key.



Read Messages.

Delete Messages

You can delete messages from the Read Messages menu or the Delete Messages menu. The Read Messages menu allows deletion of specific messages while the Delete Messages menu allows deletion of groups of message types.

Deleting Messages from the Read Message Menu

1. While reviewing a message, press the **FLASH** key.
2. Scroll to *Delete Message* and press **FLASH**.
3. Message Deleted will display and the message will be removed from that list.

Deleting Messages from the Delete Message Menu

1. Press the **FLASH** key to enter the user menu.
2. Select *SMS Menu* then select *Delete Messages*.
3. Select which type of messages you want to delete.

All Read: includes all read messages

All Read Sent: includes all read and sent messages

All Rd Snt Unsnt: includes all read, sent and unsent messages

All Msgs: includes all read, sent, unsent and new messages

4. If there are messages in any of the lists, Messages Deleted will be displayed. If there are no messages in the list you have selected an error message will be displayed.

Forward Messages

1. Press the **FLASH** key.
2. Select *SMS Menu*, then select *Read Messages*.
3. Select the desired type of message to view (New, Received, Sent, or Unsent).
4. Scroll to the desired message, then press the **FLASH** key.
5. Select Forward Message.
6. Type any additional text, then press the **FLASH** key.
7. Enter the phone number to which the message will be forwarded.
8. Press the **FLASH** key.

Reply to Messages

1. Press the **FLASH** key.
2. Select *SMS Menu*, then scroll to and select *Read Messages*.
3. Select the desired type of message to view (Reply will work only for New or Received messages).
4. Scroll to the desired message, then press the **FLASH** key.
5. Select *Reply*.
6. Type the desired reply, then press the **FLASH** key.

SMS Priority Indication

If an SMS comes in with an URGENT or EMERGENCY priority, then three triangles will be displayed in the LCD window of your SX4P.

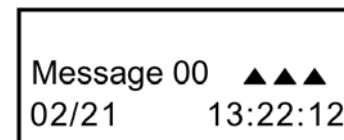
SMS Priority Retrieval

To retrieve the priority message follow the Read Messages procedure.

Note: The Priority indication will disappear after entering the SMS message menu, even if the priority message was not read. When reading a message that has urgent priority, the indication will be displayed normally with the addition of three triangles. The Priority indication will also be removed if the user deletes all messages.



Priority Message.



Priority Message Retrieval.

Data Features

The SX4P allows for 1X packet data and circuit switched data (CSD) using a PC connected to the data port of the SX4P.

Making Data Calls

To make any data call from the SX4P, the unit must be in data mode. Only data calls can be made when the SX4P is in data mode. If you want to make a voice call while in data mode, press the Flash key then wait for the SX4P to configure. It will now be in voice mode.

1. Press the **FLASH** key.
2. Select *Data Mode*. The display will show Data Mode: Press Flash to Exit.
3. The SX4P is now in data mode where you can place a data call from a device connected to the data port.
4. To exit this mode press the **FLASH** key. The SX4P will reconfigure itself for voice mode.

Receiving Data Calls

The SX4P must be configured to receive data calls. A menu option allows setup of whether the SX4P can accept circuit switched data calls, circuit switched fax calls, or voice calls. When this option is set, only the specified type of call can be received. If you select fax calls, then you will only be able to receive fax calls to the data port of the SX4P. You will not be able to receive voice calls if you are not in voice mode and Call Bearer is not set to 2 (Voice). The default received call type is voice.

1. Enter the user menu by pressing the **FLASH** key.
2. Select *Settings* then *Call Bearer*.
3. Enter the desired call mode.
 - 0 = Data
 - 1 = Fax
 - 2 = Voice (default)
4. The SX4P must be in data mode before a data call can be received. To switch to data mode, select the *Data Mode* option from the main menu.
5. Now you can receive data calls. To receive voice calls you must switch back to voice mode and set the Call Bearer to 2.

Note: When in circuit switched data mode CSD will be displayed. When in fax mode FAX will be displayed.

Data Connectivity Kit

A special data kit must be used to allow data connectivity to the SX4P. For more information on this kit, contact your service provider or nearest Telular dealer.

Voicemail

Set Voicemail Access Number

1. Press the **FLASH** key, then select *Settings*.
2. Select *Voice Mail Number*.
3. Enter the appropriate number to access the voicemail system. Contact your service provider for this number.
4. Press the **FLASH** key.

1234567890 Voice Mail Num

Set Voicemail Access Number.

Access Voicemail

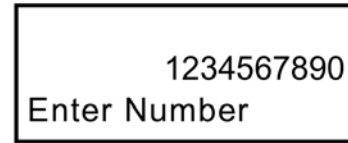
1. Lift the handset or press the Redial/Hands-free key to go off-hook.
2. Press the Voicemail key.
3. Follow automated instructions.

NOTE: Set the voicemail access number before attempting to access voicemail.

Speed Dial

Store a Number

1. Press the **FLASH** key, then select *Speed Dial*.
2. Select *Save*.
3. Enter the phone number to be stored, then press the **FLASH** key.
4. Enter the speed dial location (0-9, *, or #).
5. Press the **FLASH** key.



1234567890
Enter Number

Store a Number (Step 3).

View the Speed Dial List

1. Press the **FLASH** key, then select *Speed Dial*.
2. Select *Recall*.
3. Use the UP/DOWN arrow keys to scroll through the list..
Press the **FLASH** key to dial the number being viewed.



Enter Memory 1

Store a Number (Step 4).

Dial a Speed Dial Location

1. Pick up the handset or press the Redial/Handsfree key.
2. Press and hold the desired key on the keypad (0-9, *, or #) until the phone number displays.

SETTINGS

Use the Voicemail Key (envelope ICON) to navigate up and down the menu tree. Use the Redial Key to cancel an entry. When finished with parameter changes, press the Voicemail Key to program the changes to the phone. Alternatively, lifting the handset from the cradle and replacing it will also program the changes to the phone. The LCD window will show the word 'PROGRAMMING', when successful. Changes to the SX4P settings are activated upon returning to the idle screen.

Audio Settings (Ringer)

Incoming Call Alert Tone

1. Press the **FLASH** key.
2. Select *Settings*, then select *Call Alert Tone*.
3. Enter the desired alert tone (default = 1)
 - 1 = Alert Tone 1
 - 2 = Alert Tone 2
 - 3 = Alert Tone 3
4. Press the **FLASH** key.

Incoming Call Alert Volume

1. Press the **FLASH** key.
2. Select *Settings*, then select *Call Alert Volume*.
3. Enter the desired volume level.
 - 0 = Off
 - 1 = Low
 - 2 = High (default)
4. Press the **FLASH** key.

SMS and Voice Mail Alert Volume

1. Press the **FLASH** key.
2. Select *Settings*, then select *Msg Alert Volume*.
3. Enter the desired volume level.
 - 0 = Off
 - 1 = Low (default)
 - 2 = High
4. Press the **FLASH** key.

Auto Send Delay

1. Press the **FLASH** key.
2. Select *Settings*, then select *Auto Send Delay*.
3. Enter a desired delay time from 2 to 20 seconds (default = 3).
4. Press the **FLASH** key.



Auto send Delay.

LCD Contrast

1. Press the **FLASH** key, then select *Settings*.
2. Select *LCD Contrast*.
3. Enter a desired screen contrast level from 0 = darkest to 19 = lightest (default = 5).
4. Press the **FLASH** key.



Zero-Delay Dial.

Zero-Delay Dial

When this function is turned on, the SX4P is will recognize numbers that have been successfully called twice and the call time is longer than 15 seconds. It will then automatically dial that number without waiting for the dial delay.

1. Press the **FLASH** key, then select *Settings*.
2. Select *Zero Dial Delay*.
3. Enter the desired setting.
0 = Off
1 = On (default)
4. Press the **FLASH** key.

View Phone Number

- 1 Press the **FLASH** key, then select *Settings*.
2. Select *MIN*. The phone number of the unit will display.

Voice Privacy

This option allows additional security via encryption on the voice channel. Sometimes your service provider will automatically enable this option on their network. If you enable this feature and the network already has it enabled or does not allow voice privacy, you will receive no confirmation on the SX4P. To determine if the network you are connected to allows this feature or automatically has this enabled, contact your service provider.

1. Press the **FLASH** key, then select *Settings*.
2. Select *Voice Prv*.
3. Enter the desired setting.
0 = On
1 = Off (default)
4. Press the **FLASH** key.

Voice Privacy Alert

When this option is turned on, a notification tone will sound a few seconds after a call is connected if Voice Privacy has been activated. Turning this option off will not turn off Voice Privacy.

1. Press the **FLASH** key, then select *Settings*.
2. Select *Voice Prv Alert*.
3. Enter the desired setting.
0 = On
1 = Off (default)
4. Press the **FLASH** key.

MT Call Bearer

The SX4P can be set to support Voice (default setting), Circuit Switched Fax, and Circuit Switched Data Calls. Only one of these can be supported at a time on the unit.

1. Press the **FLASH** key, to enter *User Menu*.
2. Select *Settings* and press the FLASH key
3. Use the arrow up key to until *Call Bearer* is displayed.
4. Enter the desired setting.
0 = Circuit Switched Data
1 = Circuit Switched Fax
2 = Voice (default)

4. Press the **FLASH** key, then lift the handset to program the setting to the phone.

NOTE: In order for the settings to take effect, the user MUST lift the handset to permanently program the setting to the phone. The LCD window will show the word 'PROGRAMMING', when successful.

SX4P TROUBLESHOOTING

Unable to Send/Receive Data/FAX Calls

Check all the connections from the SX4P to other equipment (computer, fax machine, etc.). Verify that necessary settings have been properly configured (see the *Data Features* section of this manual). If everything is properly connected and configured and you are still unable to send or receive data or fax calls, contact your service provider.

Moisture or Ventilation Problems

Visually inspect the SX4P 's unit enclosure. Moisture can damage the equipment. Ventilation is also very important. If there are moisture or ventilation problems, move the SX4P to correct as necessary. See the *Temperature Environment* section of this manual.

No Power

Verify that the AC power source and its corresponding circuit breaker are functioning properly.

Cellular Telephone Service is not Working

If the cellular telephone service is not working, contact your cellular service provider.

Unable to receive Incoming Calls

Verify that the SX4P is "on-hook".

GENERAL INFORMATION AND SAFETY

Temperature Environment

The SX4P functions as both a radio transmitter and receiver. When it is ON, the SX4P receives and sends out radio frequency (RF) energy. The CDMA 800 unit operates in the frequency range between 824 and 894 MHz and the CDMA 1900 unit operates in the frequency range between 1850 and 1910 MHz. It employs commonly used phase/frequency modulation techniques. When you use your Phonecell SX4P, the cellular system handling your call controls the power level at which your unit transmits.

Operating Temperature:

From -10°C (14°F) to +50°C (122°F); Up to 95% relative humidity (non-condensing)

Storage Temperature:

From -20°C (-4°F) to +60°C (140°F); Up to 95% relative humidity (non-condensing)

Exposure to RF (Radio Frequency) Energy

In 1991, the Institute of Electrical and Electronics Engineers (IEEE), and in 1992, the American National Standards Institute (ANSI), updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. After reviewing the available body of research, more than 120 scientists, engineers and physicians from universities, government health agencies and industry developed this updated Standard. In March, 1993, the U.S. Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

The design of your Telular Phonecell SX4P complies with this updated Standard. If you want to limit RF exposure even further than the updated ANSI Standard, you may choose to control the duration of your calls and operate your phone in the most power-efficient manner.

FCC Part 15 Class B Compliance

The SX4P model has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. Changes or modifications not expressly approved by Telular Corporation will void your authority to operate the equipment per FCC part 15 paragraph 15.21. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna.
- Increase the separation between the equipment and the terminal
- Connect the equipment into an outlet on a circuit different from that to which the terminal is connected.
- Consult your Authorized Telular Distributor or an experienced radio/TV technician for help.

Safe Operation Requirements

Antenna Care and Replacement

- The Phonecell must be either wall mounted or desk mounted and should not be operated when any person is within 203 mm (8 inches) of the antenna.
- Attach either a lightning arrester or a ground wire on the antenna mast to an 8-foot ground rod or cold water pipe.
- Do not use the Phonecell with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Have your antenna replaced by a qualified technician immediately.
- Do not power unit until antenna is connected, as it may burn out the radio transmitter.
- Use only a manufacturer-approved antenna. Unauthorized antennas, modifications, or attachments could damage the Phonecell and will void the Grant of Type Acceptance.
- Your Phonecell SX4P must be placed or mounted on a flat surface to allow proper ventilation. Do not block the air vents or the space beneath your Phonecell SX4P as this could cause the unit to overheat and fail.

Interference to Medical and Personal Electronic Devices

- Do not use the Phonecell SX4P in health care facilities when any regulations posted in the area restrict cellular phone use.

NOTE: Consult the manufacturer(s) of your medical and personal electronic device(s) (for example a pacemaker or hearing aid) to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information regarding medical devices.

CAUTION: When cleaning, do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

WARNING: Potentially Explosive Atmospheres

- Do not operate the Phonecell near blasting caps or in a blasting area.
- Do not install the Phonecell in any area with potentially explosive atmosphere.
- Do not transport or store flammable gas, liquid or explosives in the area of your Phonecell or accessories.

WARRANTY

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

TELULAR CORPORATION ("Telular") warrants to a distributor Buyer, or to a customer only if the customer is a Buyer directly from Telular, that the Products (including accessories) shall comply with the applicable Specifications and shall be free from defects in material and workmanship under normal use and service for a period of fifteen (15) months from date of shipment from Telular. Telular, at its option, shall at no charge either repair, replace or refund the purchase price of the Product during the warranty period, provided it is returned by Buyer in accordance with the terms of this warranty to the Telular designated repair center. Repair or replacement, at Telular's option, may include the replacement of parts, boards or Products with functionally equivalent reconditioned items. Repaired and replacement items are warranted for the balance of the original warranty period. All replaced items shall become the property of Telular. **SUCH ACTION ON THE PART OF TELULAR SHALL BE THE FULL EXTENT OF TELULAR'S LIABILITY HEREUNDER, AND BUYERS EXCLUSIVE REMEDY.** Buyer shall be responsible for all costs and expenses incurred by Buyer including without limitation any handling, labor or transportation charges. **OTHER THAN AFORESAID, THIS EXPRESS WARRANTY IS EXTENDED BY TELULAR TO BUYER ONLY AND NOT TO BUYER'S CUSTOMERS OR USERS OF BUYER'S PRODUCTS.**

II. HOW TO OBTAIN WARRANTY SERVICE

Product covered under this warranty shall only be accepted from and returned to Buyer's designated repair center. Buyer's dealers, distributors, agents, and end users cannot submit items to Telular under this warranty. To receive warranty service an RMA number must first be obtained from Telular Technical Support. The defective or non-compliant Product should be sent by Buyer freight pre-paid to: Telular Corporation, 647 North Lakeview Parkway, Vernon Hills, IL 60061, USA or other designated location. The product must be packaged in the original carton and packing material or an equivalent package and must have the assigned RMA number clearly marked on the carton. Returned Product received without an RMA number will be returned to the sender.

III. WARRANTY CONDITIONS:

This is the complete warranty for the Products manufactured by Telular and sold to Buyer. Telular assumes no obligation or liability for additions or modifications to this warranty unless made in writing and signed by an officer of Telular. Unless made in separate written agreement between Telular and Buyer, Telular does not warrant the installation, field maintenance or service of the Products or parts.

TELULAR CANNOT BE RESPONSIBLE IN ANY WAY FOR ANY ANCILLARY EQUIPMENT NOT FURNISHED BY TELULAR WHICH IS ATTACHED TO OR USED IN CONNECTION WITH THE PRODUCTS OR FOR OPERATION OF THE PRODUCTS WITH ANY ANCILLARY EQUIPMENT AND ALL SUCH EQUIPMENT IS EXPRESSLY EXCLUDED FROM THIS WARRANTY. FURTHERMORE, TELULAR CANNOT BE RESPONSIBLE FOR ANY DAMAGE TO THE PRODUCTS RESULTING FROM THE USE OF ANCILLARY EQUIPMENT NOT FURNISHED BY TELULAR FOR USE WITH THE PRODUCTS.

WHEN THE PRODUCT IS USED IN CONJUNCTION WITH ANCILLARY OR PERIPHERAL EQUIPMENT NOT MANUFACTURED BY TELULAR, TELULAR DOES NOT WARRANT THE OPERATION OF THE PRODUCT/PERIPHERAL COMBINATION, AND TELULAR SHALL HONOR NO WARRANTY CLAIM WHERE THE PRODUCT IS USED IN SUCH A COMBINATION AND IT IS DETERMINED BY TELULAR THAT THERE IS NO FAULT WITH THE PRODUCT. TELULAR DISCLAIMS LIABILITY FOR RANGE, COVERAGE, AVAILABILITY, OR OPERATION OF THE CELLULAR SYSTEM WHICH IS PROVIDED BY THE CARRIER.

IV. WHAT THIS WARRANTY DOES NOT COVER:

(a) Subsequent upgrades and enhancements to the Product. (b) Defects, non-compliance or damage resulting from use of the Product in other than its normal and customary manner or environment. (c) Defects, noncompliance or damage from misuse, lightening, accident or neglect. (d) Defects, noncompliance or damage from improper testing, operation, maintenance, installation, adjustment, or any alteration or modification of any kind. (e) Product disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim. (f) Product which has had the serial number removed or made illegible. (g) Defects, non-compliance or damage due to spills of food or liquid. (h) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to customer normal use. (i) Costs and expenses, including without limitation handling, labor and transportation, incurred in returning Product for warranty service to Telular's Repair Center. (j) Repair, programming or servicing by someone other than Telular.

V. GENERAL PROVISIONS:

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS OR STATUTORY WARRANTIES. IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, INFRINGEMENT, DELIVERY, NEGLIGENCE AND PERSONAL INJURY, ARE DISCLAIMED. FURTHER, AS THE CELLULAR CARRIER IS NOT CONTROLLED BY TELULAR, NO WARRANTY IS MADE AS TO COVERAGE, AVAILABILITY OR GRADE OF SERVICE PROVIDED BY THE CELLULAR CARRIER. IN NO EVENT SHALL TELULAR BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS.

VI. SOFTWARE PROVISIONS:

Laws in the United States and other countries preserve for Telular certain exclusive rights for copyrighted Telular software such as the exclusive rights to reproduce in copies and distribute copies of such Telular software. Telular software may be copied into, used in and redistributed with only the Product associated with such Telular software. No other use, including without limitation, disassembly of such Telular software or exercise of exclusive rights in such Telular software is permitted and Telular reserves all rights not expressly granted in this Limited Commercial Warranty.

Patents:

Telular Corporation products are protected and manufactured under one or more of the following U.S. patents and related international patents and patents pending relating thereto: 4,658,096; 4,737,975; 4,775,997; 4,868,519; 4,922,517; 5,134,651; 5,361,297; 5,469,494; 5,046,085; 5,715,296.

Trademarks:

Telular Corporation owns the following registered trademarks: TELULAR and design, TELULAR, CELJACK, MAXJACK, TELCEL, HEXAGON LOGO, PHONECELL, CELSERV, TELGUARD, CPX, and AXCELL.

APPENDIX A:

HOW TO SETUP PC SERIAL PORTS FOR PHONECELL DIGITAL FAX/DATA

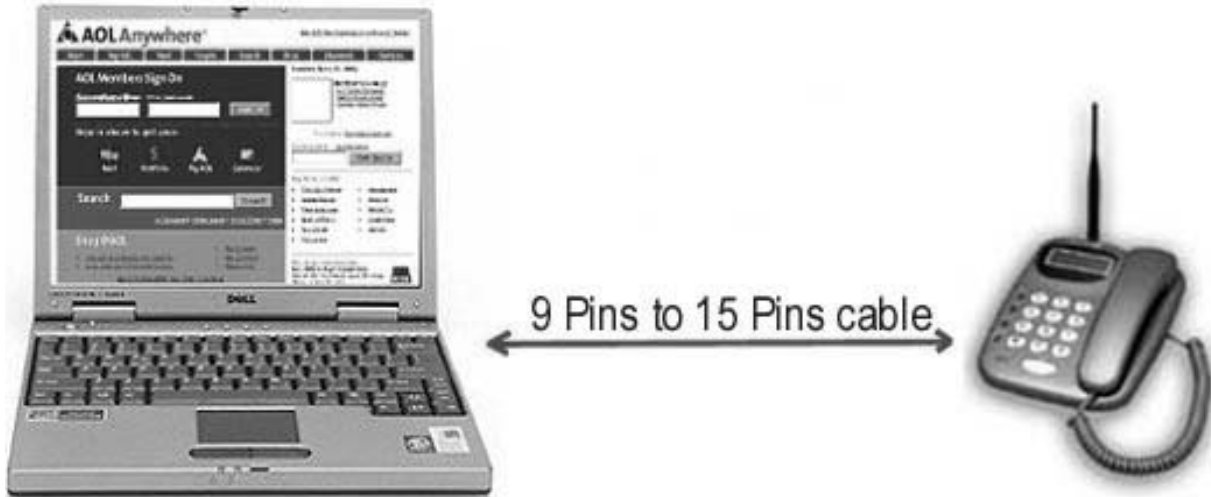
Requirements

- CDMA account with your network service provider including a Data/Fax facility.
- PC/Laptop/ Notebook with Com Port.
- Windows 95/98
- · RS-232 Cable (DB9 to DB15).

NOTE: When all of the above have been satisfied, you may proceed.

Modem Setup

- 1) Connect the RS-232 Cable to the Com. Port of your computer.
- 2) Power on your PC/laptop and start Windows 95/98
- 3) From the PC start menu select “SETTINGS”, Then click on “CONTROL PANEL”. Next click on



the phone icon in the “CONTROL PANEL” window to bring up the “MODEMS PROPERTIES” window.

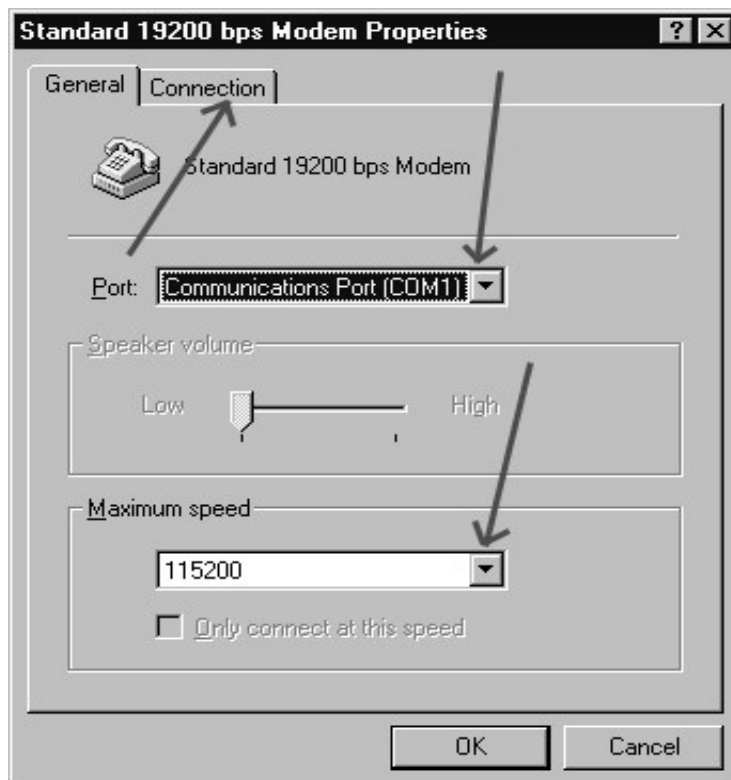


NOTE: A data card modem device may appear in the list of installed modems.

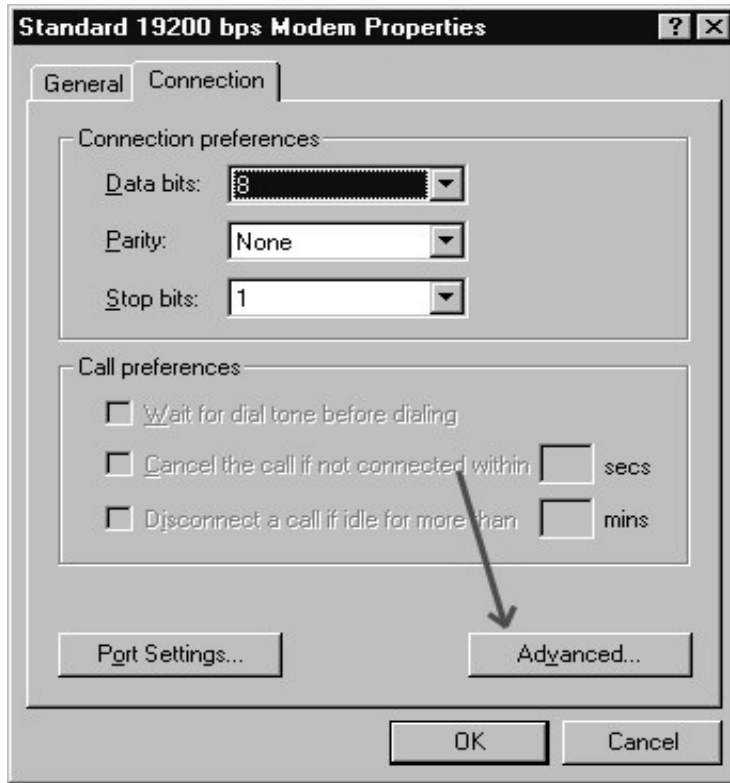
4) Select 'Standard 19200 bps Modem' and click on 'Properties'..



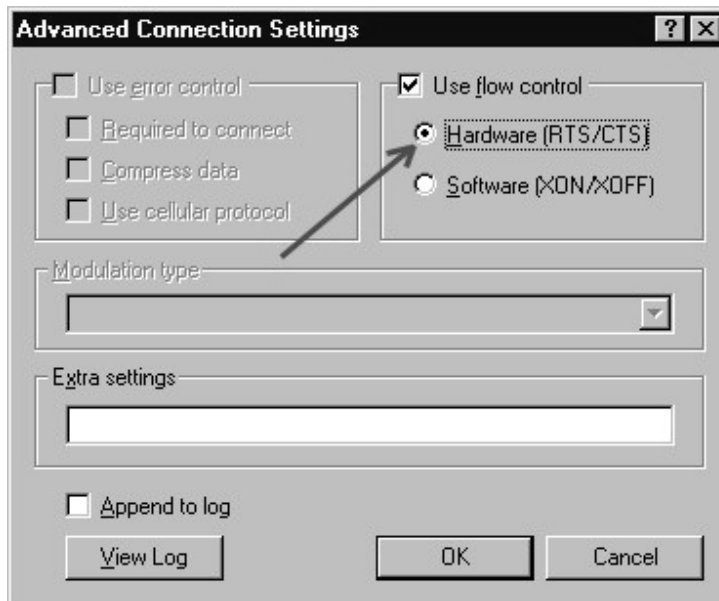
5) Select 'Communication' Port (COM1) and Maximum speed of 115,200 bps.



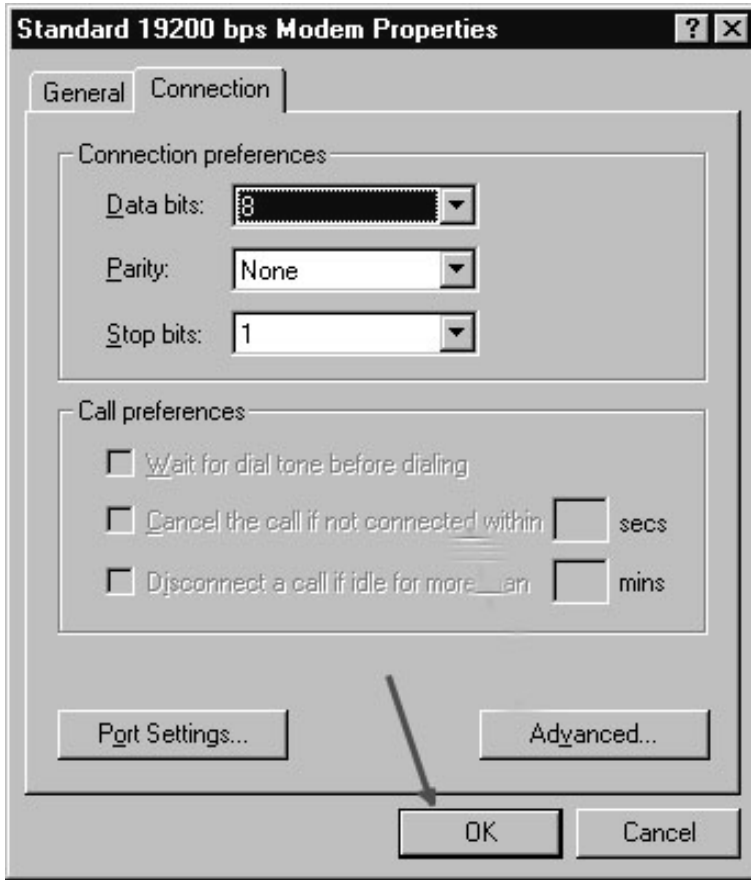
- 6) Set 'Connection Preferences' so that the data bits is set to 8, parity is NONE and stop bits are 1 then click 'Advanced'.



- 7) Check the box for 'Use Control Flow' and then click on 'Hardware (RTS/CTS)' and then select 'OK'.



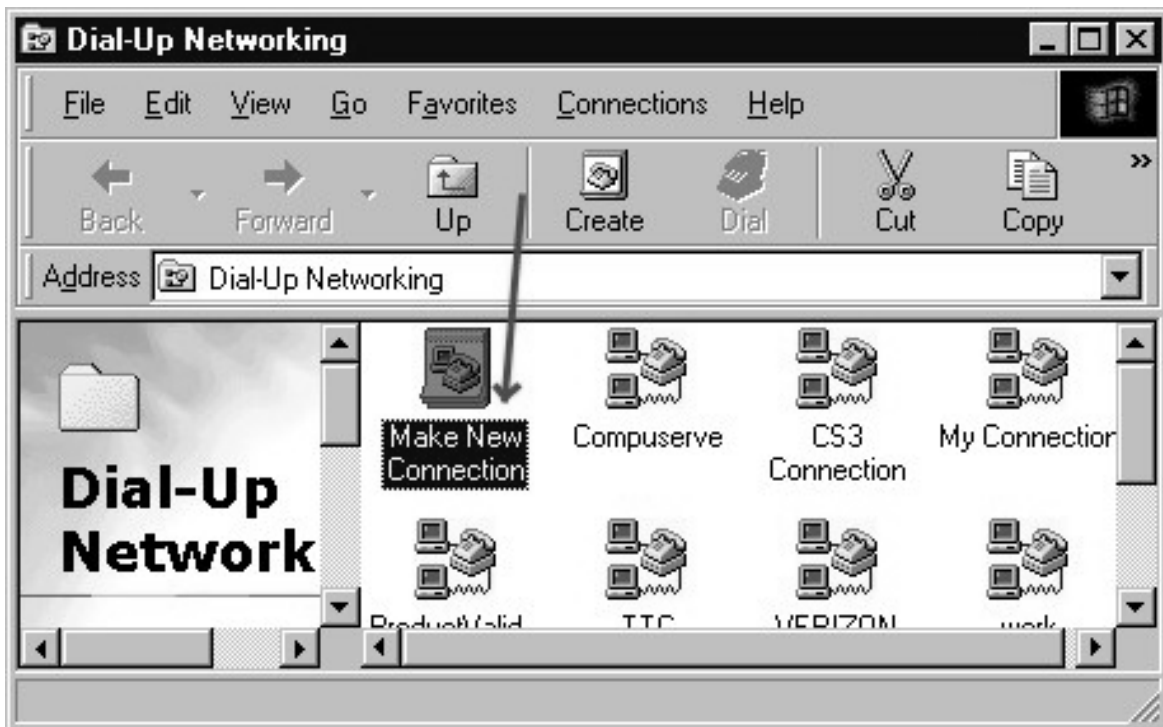
8) Click on 'OK'



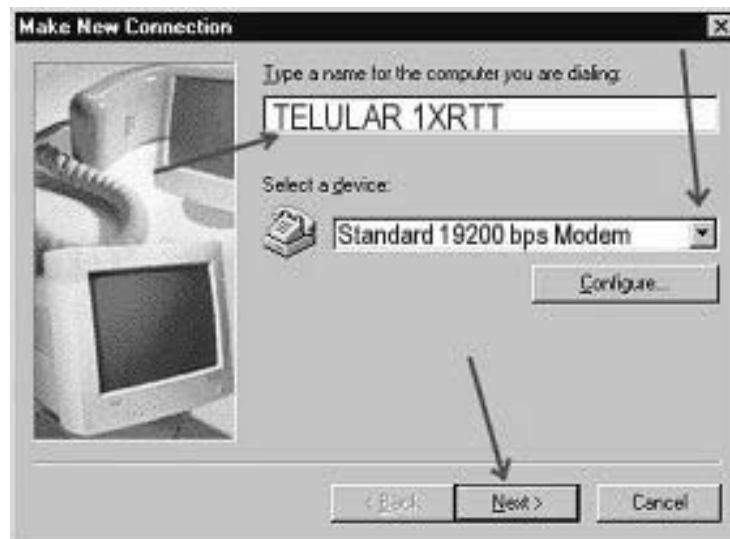
9) Click on 'Close'.



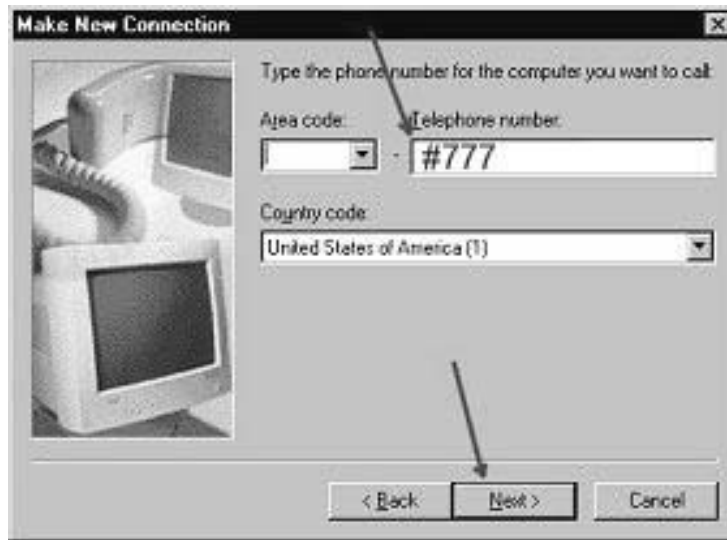
10) Run 'Dial-up Networking'. Double click the icon 'Make New Connection'.



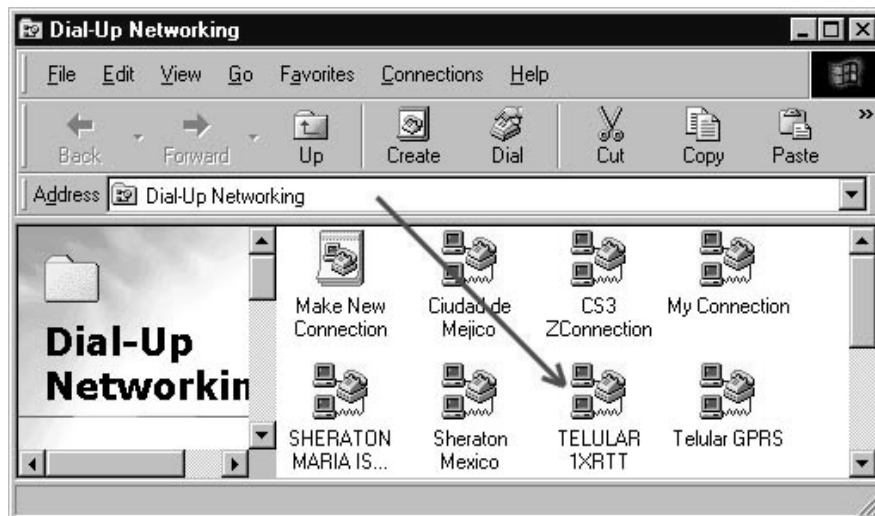
11) Type "Telular 1xRTT" on the first entry field; select the 'Standard 19200 modem' and click on 'Next'.



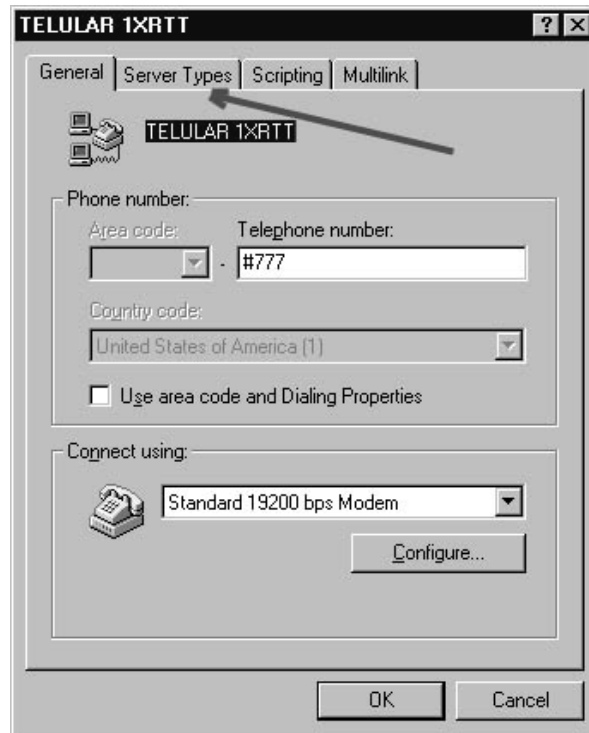
12) Type the network provider's phone number (#777) and click on 'Next' and then click on 'Finish'.



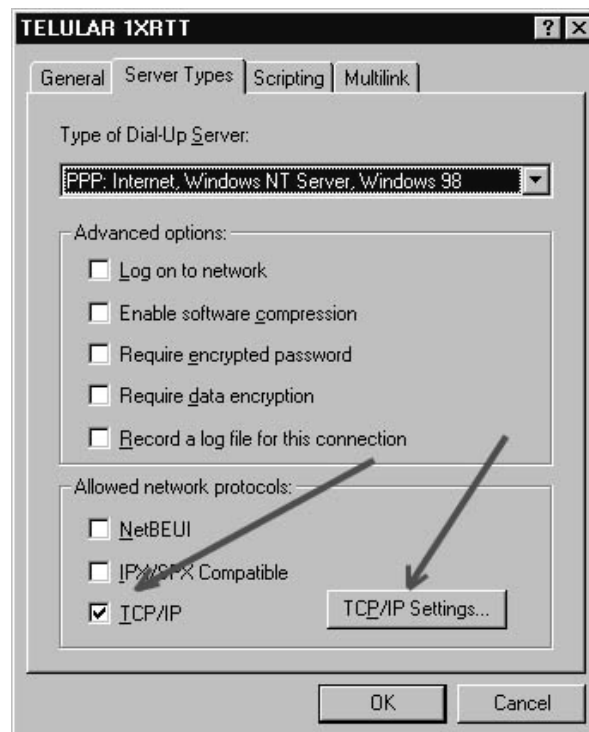
13) Right click on the new icon 'Telular 1xRTT' and left click on 'Properties'.



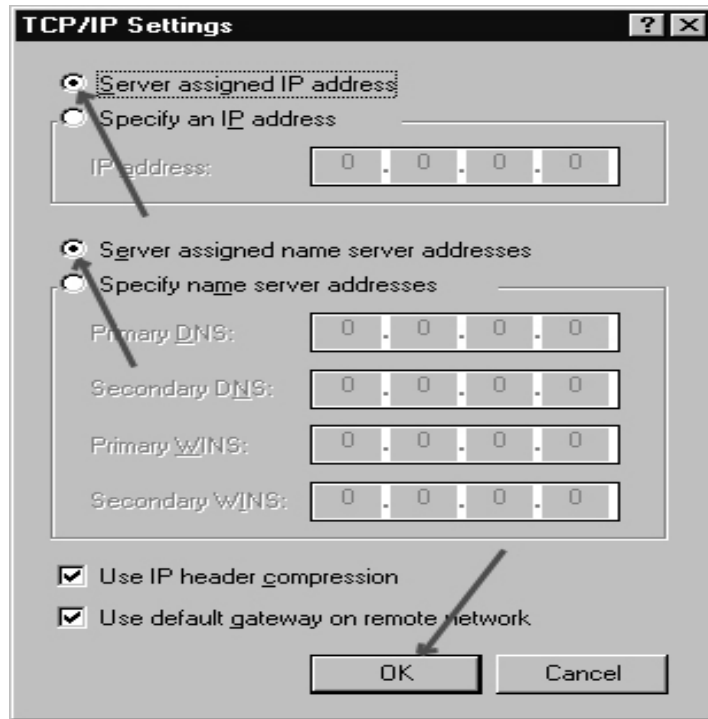
14) Click on 'Server Types' (DO NOT check the 'Use Area Code and Dialing Properties').



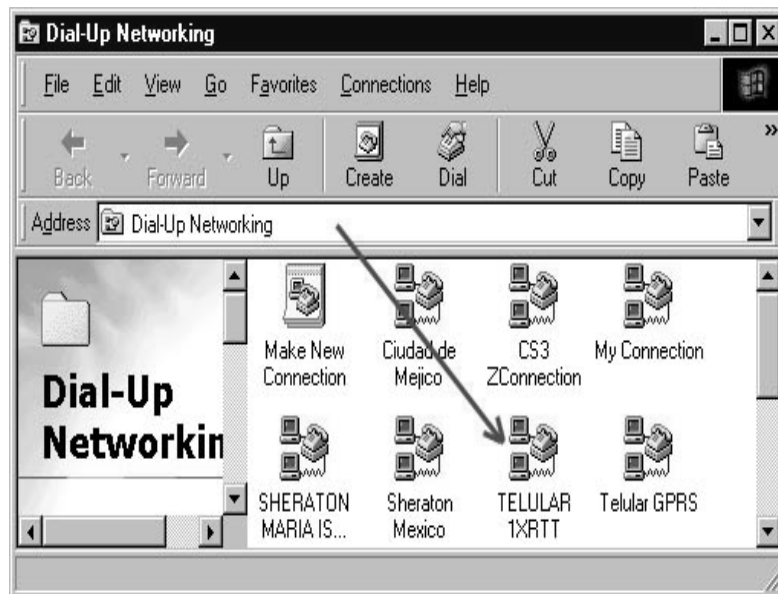
15) Check the 'TCP/IP' box and click on 'TCP/IP Settings'.



16) Now select 'Server assigned IP address' as well as 'Server assigned name server address' in addition you need to check both boxes 'Use IP header compression' and 'Use default gateway on remote network'. Then click on 'OK'.



17) To connect to the Internet you will need to double click on the new profile just created called (Telular 1XRTT) now resident in the 'Dial-Up Networking' window. After double clicking on the new profile icon you need to enter your user name and password and click on 'Connect'.





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